SOUTH DAKOTA MATHEMATICS STANDARDS K-2

Kindergarten Algebra Grade Standards, Supporting Skills, and Examples

Indicator 1: Use procedures to transform algebraic expressions.

Note: Kindergarten students do not master standards for Indicator 1. Mastery of this indicator emerges and increases from grade 3 upward.

Indicator 2: Use a variety of algebraic concepts and methods to solve equations and inequalities.

Bloom's Taxonomy Level	Standard, Supporting Skills, and Examples
(Comprehension)	 K.A.2.1. Students are able to compare collections of objects to determine more, less, and equal (greater than and less than). Demonstrate mastery using collections of concrete objects. Example: Are there more red marbles or blue marbles in the jar?

Indicator 3: Interpret and develop mathematical models.

Bloom's Taxonomy Level	Standard, Supporting Skills, and Examples
(Knowledge)	K.A.3.1. Students are able to use concrete objects to model the meaning of the "+" and "-" symbols.
	 Model problem situations using physical materials.
	Example: Mary had 2 crackers and Steve had 2 crackers. How many crackers did they have together?
	Example: Bob had 5 apples and he ate 1 apple. How many apples does he have left?

Indicator 4: Describe and use properties and behaviors of relations, functions, and inverses.

Bloom's Taxonomy Level	Standard, Supporting Skills, and Examples
(Knowledge)	K.A.4.1. Students are able to identify and extend two-part repeating patterns using concrete objects.
	Example: Green triangle, orange square, green triangle,?
	Example: Tennis shoe, tennis shoe, sandal,?
(Comprehension)	K.A.4.2. Students are able to sort and classify objects according to one attribute.
	Example: size, shape, or color.

Kindergarten Algebra Performance Descriptors

	Kindergarten students performing at the advanced level:
Advanced	 recognize and use the plus and minus symbols;
	 compare, sort, and classify objects;
	 extend and/or create two-part repeating patterns.
	Kindergarten students performing at the proficient level:
Proficient	 recognize the plus and minus symbols;
1 Tonerent	 compare, sort, and classify sets of objects based on one attribute;
	 extend two-part repeating patterns.
	Kindergarten students performing at the basic level:
Basic	 sort sets of objects based on one attribute;
	• recognize patterns.

Kindergarten Algebra ELL Performance Descriptors

	Kindergarten ELL students performing at the proficient level:
	 extend two-part patterns;
Proficient	• compare collections of objects to determine which has
	more or less;
	 find unknown sums using concrete objects and pictures;
	 sort and classify objects based on one attribute;
	 ask questions related to math concepts.

	Kindergarten ELL students performing at the intermediate
	level:
	 extend simple patterns using manipulatives;
Intermediate	 identify which group of objects has more by telling or
	showing;
	 sort objects based on color or shape;
	• give simple oral responses to questions on topics presented
	in class.
	Kindergarten ELL students performing at the basic level:
	 participate in sorting activities with other students;
Basic	 use correct pronunciation of numbers and terms;
Busic	 respond correctly to yes or no questions on topics
	presented in class.
	Kindergarten ELL students performing at the emergent level:
	• copy, trace, and write numerals and mathematics symbols;
Emergent	 use correct pronunciation of numbers;
Zinei gene	 use non-verbal communication to express mathematical
	ideas.
	Kindergarten ELL students performing at the pre-emergent
	level:
	 observe and model appropriate cultural and learning
Pre-emergent	behaviors from peers and adults;
	 listen to and observe comprehensible instruction and
	communicate understanding non-verbally.

Kindergarten Geometry Grade Standards, Supporting Skills, and Examples

Indicator 1: Use deductive and inductive reasoning to recognize and apply properties of geometric figures.

Bloom's Taxonomy Level	Standard, Supporting Skills, and Examples
(Knowledge)	K.G.1.1. Students are able to identify basic two-dimensional (plane) figures.
	Describe their likeness and differences and identify them in the environment.
	Examples:
	Circle
	Square
	Triangle

Indicator 2: Use properties of geometric figures to solve problems from a variety of perspectives.

Bloom's Taxonomy Level	Standard, Supporting Skills, and Examples
(Comprehension)	K.G.2.1. Students are able to describe the position of two- dimensional (plane) figures.
	Examples: Above, between, next to, below, beside

Kindergarten Geometry Performance Descriptors

Advanced	Kindergarten students performing at the advanced level: • identify, describe, and draw plane figures and find examples in the
	environment;identify shapes that have been translated (slid.)
Proficient	 Kindergarten students performing at the proficient level: identify and describe plane figures and find examples in the environment.
Basic	Kindergarten students performing at the basic level: • identify plane figures.

Kindergarten Geometry ELL Performance Descriptors

Geometry

	Kindergarten ELL students performing at the proficient level:	
Proficient	• identify and describe plane figures and find examples in the	
	environment;	
	 ask questions related to geometry concepts. 	
	Kindergarten ELL students performing at the intermediate	
	level:	
Intermediate	 identify plane figures verbally; 	
	 recognize and use basic geometry terms; 	
	give simple oral responses to directed questions on topics	
	presented in class.	
	Kindergarten ELL students performing at the basic level:	
	 sort geometric shapes and terms; 	
Basic	 use correct pronunciation of names of shapes; 	
	 respond correctly to yes or no questions on topics presented 	
	in class.	
	Kindergarten ELL students performing at the emergent level:	
	 trace, copy, and draw basic geometric shapes; 	
Emergent	• imitate pronunciation of geometric shapes and terms;	
	• use non-verbal communication to express geometric ideas.	
	Kindergarten ELL students performing at the pre-emergent	
	level:	
	observe and model appropriate cultural and learning	
Pre-emergent	behaviors from peers and adults;	
	 listen to and observe comprehensible instruction and 	
	communicate understanding non-verbally.	

Kindergarten Measurement Grade Standards, Supporting Skills, and Examples

Indicator 1: Apply measurement concepts in practical applications.

Bloom's Taxonomy Level	Standard, Supporting Skills, and Examples
(Knowledge)	K.M.1.1. Students are able tell time to the nearest hour using digital and analog clocks.
(Knowledge)	K.M.1.2. Students are able to name the days of the week.
(Knowledge)	K.M.1.3. Students are able to identify pennies, nickels, dimes, and quarters using money models.
(Knowledge)	K.M.1.4. Students are able to estimate length using non-standard units of measure.
	Example: A book is about paperclips long.
(Comprehension)	K.M.1.5. Students are able to compare and order concrete objects by length, height, and weight.
	Examples:
	Length - longer, shorter
	Height - taller, shorter
	Weight – heavier, lighter

Kindergarten Measurement Performance Descriptors

1 of formance Descriptors	
	Kindergarten students performing at the advanced level:
Advanced	 estimate length of concrete objects using non-standard or standard units;
	 compare and order length, height, and weight of concrete objects using non-standard and standard units;
	• state the value of coins;
	 tell time to the nearest half hour.
	Kindergarten grade students performing at the proficient level:
	 estimate length of concrete objects using non-standard units;
Proficient	 compare and order length, height, and weight of concrete objects using non-standard units;
	• identify coins;
	 tell time to the nearest hour and name the days of the week.

	Kindergarten grade students performing at the basic level:
Basic	 estimate length and height of concrete objects using non- standard units;
	 explain the purpose of money;
	 read the numbers on a digital clock.

Kindergarten Measurement ELL Performance Descriptors

	Kindergarten ELL students performing at the proficient level:	
	 sort coins based on attributes; 	
Proficient	• tell time to the hour;	
	 explain how they ordered groups of objects based on attributes such 	
	as size;	
	 ask questions related to measurement concepts. 	
	Kindergarten ELL students performing at the intermediate level:	
Intermediate	 use correct pronunciation of coin names; 	
intermediate	 identify measurable attributes of objects; 	
	• give simple oral responses to directed questions on topics presented	
	in class.	
	Kindergarten ELL students performing at the basic level:	
	 participate in measurement activities with other students; 	
Basic	 use correct pronunciation using measurement terms; 	
	 respond correctly to yes or no questions on topics presented in 	
	class.	
	Kindergarten ELL students performing at the emergent level:	
	 participate in measurement activities with other students; 	
Emergent	 trace, copy, and draw measurement symbols; 	
Emergent	 imitate pronunciation of numbers and measurement terms; 	
	 use non-verbal communication to express mathematical ideas. 	
	Kindergarten ELL students performing at the pre-emergent level:	
	 observe and model appropriate cultural and learning behaviors from 	
Pre-emergent	peers and adults;	
	listen to and observe comprehensible instruction and communicate	
	understanding non-verbally.	

Kindergarten Number Sense Grade Standards, Supporting Skills, and Examples

Indicator 1: Analyze the structural characteristics of the real number system and its various subsystems. Analyze the concept of value, magnitude, and relative magnitude of real numbers.

Bloom's Taxonomy Level	Standard, Supporting Skills, and Examples
(Comprehension)	 K.N.1.1. Students are able to read, write, count, and sequence numerals to 20. Say the forward number word sequence to 20 and the backward number sequence from 10. Say the number before and after a given number in the range 0-20. Use one-to-one correspondence. Keep track of what's been counted. Associate verbal names and standard numerals with whole numbers to 20. Count objects in a given set and write the corresponding numeral. Identify ordinal positions using an ordered set of objects, 1st through 10th. ✓ Associate written word names with whole numbers to 10.
(Knowledge)	K.N.1.2. Students are able to use fraction models to create one half of a whole. Example: Divide a cookie equally between two people.

Indicator 2: Apply number operations with real numbers and other number systems.

Bloom's Taxonomy Level	Standard, Supporting Skills, and Examples
(Application)	(Mastery of this indicator does not emerge until first grade.)

Indicator 3: Develop conjectures, predictions, or estimations to solve problems and verify or justify the results.

Bloom's Taxonomy Level	Standard, Supporting Skills, and Examples
	K.N.3.1. Students are able to solve addition and subtraction problems up to 10 in context.
(Application)	 Represent problem situations and solve using concrete objects, pictures, or numbers.
	 Explain how to solve story problems using concrete objects and pictures.

Kindergarten Number Sense Performance Descriptors

	Kindergarten students performing at the advanced level:
Advanced	 estimate and solve addition and subtraction problems up to 20;
	 read, write, count, and sequence numerals to 50;
	 identify unit fractions of a whole.
Kindergarten students performing at the proficient level:	
Proficient	 solve addition and subtraction problems up to 10;
	 read, write, count, and sequence numerals to 20;
	• create one half of a whole.
	Kindergarten students performing at the basic level:
Basic	 read, write, and count numerals to 10;
	• solve addition and subtraction problems up to 5.

Kindergarten Number Sense ELL Performance Descriptors

EEE 1 c1 to munice Descriptors	
	Kindergarten ELL students performing at the proficient level:
Proficient	 read, write, count, and sequence numbers to 20;
	 solve addition and subtraction problems using manipulatives;
	 ask questions related to number concepts.
Intermediate	Kindergarten ELL students performing at the intermediate level:
	 solve simple story problems using manipulatives;
	• count to 20;
	 give simple oral responses to directed questions on topics
	presented in class.

	Kindergarten ELL students performing at the basic level:
	 solve some simple addition problems using manipulatives;
Basic	• count to 10;
Dasic	 participate in number sense activities with other students;
	 use correct pronunciation of numbers and mathematical terms;
	 respond correctly to yes or no questions on topics presented in
	class.
	Kindergarten ELL students performing at the emergent level:
	 participate in number sense activities with other students;
Emergent	 copy, trace, and write numerals and mathematics symbols;
	 imitate pronunciation of numbers;
	 use non-verbal communication to express mathematical ideas.
Kindergarten ELL students performing at the pre-emerger	
	 observe and model appropriate cultural and learning behaviors
Pre-emergent	from peers and adults;
	 listen to and observe comprehensible instruction and
	communicate understanding non-verbally.

Kindergarten Statistics & Probability Grade Standards, Supporting Skills, and Examples

Indicator 1: Use statistical models to gather, analyze, and display data to draw conclusions.

Bloom's Taxonomy Level	Standard, Supporting Skills, and Examples
(Knowledge)	K.S.1.1. Students are able to describe data represented in simple graphs (using real objects) and pictographs.
	Example: Using a graph of favorite ice cream flavors, decide which flavor most people like.

Indicator 2: Apply the concepts of probability to predict events/outcomes and solve problems.

Bloom's Taxonomy Level	Standard, Supporting Skills, and Examples
	(Mastery of this indicator does not emerge until first grade.)

Kindergarten Statistics & Probability Performance Descriptors

Advanced	Kindergarten students performing at the advanced level:
Advanced	 answer questions about collected data;
	 construct simple graphs from collected data.
	Kindergarten students performing at the proficient level:
Proficient	 describe and compare observable quantities of collected data;
	 interpret data represented in pictographs and bar graphs.
	Kindergarten students performing at the basic level:
Basic	 identify which group has the most in a set of collected data.

Kindergarten Statistics & Probability ELL Performance Descriptors

Proficient	Kindergarten ELL students performing at the proficient level:
	 collect and sort information from a given set of objects;
	 ask questions related to statistics concepts.
	Kindergarten ELL students performing at the intermediate level:
Intermediate	 collect information from a given set of objects;
	 give simple oral or pictorial responses to directed questions on
	topics presented in class.
	Kindergarten ELL students performing at the basic level:
Basic	 participate in graphing activities with other students;
	 respond correctly to yes or no questions on topics presented in
	class.
	Kindergarten ELL students performing at the emergent level:
Emergent	 imitate pronunciation of numbers and mathematical terms;
	 use non-verbal communication to express mathematical ideas.
	Kindergarten ELL students performing at the pre-emergent level:
	 observe and model appropriate cultural and learning behaviors
Pre-emergent	from peers and adults;
	 listen to and observe comprehensible instruction and
	communicate understanding non-verbally.

First Grade Algebra Grade Standards, Supporting Skills, and Examples

Indicator 1: Use procedures to transform algebraic expressions.

Note: First grade students do not master standards for Indicator 1. Mastery of this indicator emerges and increases from grade 3 upward.

Indicator 2: Use a variety of algebraic concepts and methods to solve equations and inequalities.

Bloom's Taxonomy Level	Standard, Supporting Skills, and Examples
(Comprehension)	1.A.2.1. Students are able to use the concepts and language of more, less, and equal (greater than and less than) to compare numbers and sets (0 to 20).
	• For numbers 0 - 20, identify one more/one less.
(**************************************	Write the words less than or more than between two numbers.
	Example: 18 is more than 4
	Identify a number that is more than/less than a given number.
	1.A.2.2. Students are able to solve open addition and subtraction sentences with one unknown () using numbers equal to or less than 10.
(Application)	Examples:
	4 = 3 +
	$\square + 2 = 4 + 1$
	5 – 3 =
	1 = 2

Indicator 3: Interpret and develop mathematical models.

Bloom's Taxonomy Level	Standard, Supporting Skills, and Examples
	1.A.3.1. Students are able to write number sentences from problem situations using "+" or "-", and "=" with numbers to ten.
(Application)	Examples: Write a number sentence to represent the problems. 1) Mary had 8 cookies. She gave 2 cookies to Bob. How many cookies does she have left?
	2) Mary has 8 cookies. Bob has 2 cookies. How many cookies do they have altogether?

Indicator 4: Describe and apply the properties and behaviors of relations, functions, and inverses.

Bloom's Taxonomy Level	Standard, Supporting Skills, and Examples
(Comprehension)	1.A.4.1. Students are able to identify and extend repeating patterns containing multiple elements using objects and pictures.
	 Describe or demonstrate the next element in repeating patterns, e.g., rhythm, color, and shape.
	 Find patterns or relations in data organized in tables or charts to determine what should come next.
(Comprehension)	1.A.4.2. Students are able to determine common attributes in a given group and identify those objects that do not belong.

First Grade Algebra Performance Descriptors

	First grade students performing at the advanced level:	
Advanced	• create and solve addition and subtraction number sentences (0-20);	
	• compare numbers and sets (1-20) and explain their thinking;	
	 extend and create repeating patterns. 	
First grade students performing at the proficient level:		
Proficient	 solve addition and subtraction number sentences (0-10); 	
	• compare numbers and sets (1-20);	
	 identify and extend repeating patterns. 	
First grade students performing at the basic level:		
Basic	• solve addition number sentences (0-5);	
	 identify repeating patterns. 	

First Grade Algebra ELL Performance Descriptors

ELL renormance Descriptors		
	First grade ELL students performing at the proficient level:	
Proficient	 identify and extend repeating patterns; 	
	 solve equations involving single-digit addition and subtraction; 	
	• use concepts of equal to, greater than, and less than to compare numbers and sets (0-20);	
	 determine common attributes in a given group of objects and explain why some objects do not belong; 	
	 read and speak the basic language of mathematics. 	
	First grade ELL students performing at the intermediate level:	
	 extend repeating patterns and tell what comes next; 	
Intermediate	 solve simple equations involving single-digit addition and subtraction (0-10); 	
Intermediate	 communicate the concept of greater than through comparing numbers and sets; 	
	 recognize and use basic mathematical terms; 	
	 give simple oral responses to directed questions on topics 	
	presented in class.	
	First grade ELL students performing at the basic level:	
	 extend repeating patterns; 	
Basic	 use number sentences that include symbolic representations; 	
	 solve numerical (not word) problems using addition; 	
	 respond to yes or no questions and to problems presented 	
	pictorially or numerically in class.	
	First grade ELL students performing at the emergent level:	
Emergent	 copy, trace, and write numerals and mathematical symbols; 	
Emergent	 imitate pronunciation of numbers and mathematical terms; 	
	 use non-verbal communication to express mathematical ideas. 	
	First grade ELL students performing at the pre-emergent level:	
	 observe and model appropriate cultural and learning behaviors 	
Pre-emergent	from peers and adults;	
	 listen to and observe comprehensible instruction and 	
	communicate understanding non-verbally.	

First Grade Geometry Grade Standards, Supporting Skills, and Examples

Indicator 1: Use deductive and inductive reasoning to recognize and apply properties of geometric figures.

Bloom's Taxonomy Level	Standard, Supporting Skills, and Examples
(Comprehension)	1.G.1.1. Students are able to describe characteristics of plane figures. Examples: A circle is round. A triangle has three straight lines.
(Comprehension)	1.G.1.2. Students are able to sort basic three-dimensional figures. Examples: Sphere Cube Cylinder Cone

Indicator 2: Use properties of geometric figures to solve problems from a variety of perspectives.

Bloom's Taxonomy Level	Standard, Supporting Skills, and Examples
(Comprehension)	1.G.2.1. Students are able to describe proximity of objects in space.
	Examples: Near, far, up, down, below, beside

First Grade Geometry Performance Descriptors

	First grade students performing at the advanced level:
Advanced	 compare plane and solid figures based on observable characteristics; describe proximity of objects in space based on more than one
	attribute;identify geometric figures regardless of orientation.

	First grade students performing at the proficient level:
Proficient	 describe characteristics of plane figures;
Troncient	 sort solid figures;
	 describe proximity of objects in space.
	First grade students performing at the basic level:
Basic	 recognize plane figures;
	 recognize proximity of objects in space.

First Grade Geometry ELL Performance Descriptors

ELL I el loi mance Descriptors	
	First grade ELL students performing at the proficient level:
Proficient	 describe characteristics of plane figures;
	 sort solid figures;
	 describe proximity of objects in space;
	 read and speak the basic language of geometry.
	First grade ELL students performing at the intermediate level:
	 identify plane figures verbally and find examples in the
	environment;
Intermediate	 identify solid figures;
	 respond to written problems with oral support;
	 recognize and use basic geometric terms;
	 give simple oral responses to directed questions on topics
	presented in class.
	First grade ELL students performing at the basic level:
	 identify basic plane figures verbally;
Basic	 give simple oral responses to directed questions on topics
Dasic	presented in class;
	 use pronunciation of geometric shapes and terms;
	 respond to yes or no questions and to problems presented
	pictorially or numerically in class.
	First grade ELL students performing at the emergent level:
	 identify basic plane figures non-verbally;
Emergent	 trace, copy, and draw basic geometric shapes;
	 imitate pronunciation of geometric shapes and terms;
	 use non-verbal communication to express mathematical ideas.
	First grade ELL students performing at the pre-emergent level:
	 observe and model appropriate cultural and learning behaviors
Pre-emergent	from peers and adults;
	 listen to and observe comprehensible instruction and
	communicate understanding non-verbally.

First Grade Measurement Grade Standards, Supporting Skills, and Examples

Indicator 1: Apply measurement concepts in practical applications.

Bloom's Taxonomy Level	Standard, Supporting Skills, and Examples
(Knowledge)	1.M.1.1. Students are able to tell time to the half-hour using digital and analog clocks and order a sequence of events with respect to time.
(Application)	1.M.1.2. Find a date on the calendar.
(Application)	1.M.1.3. Students are able to use different combinations of pennies, nickels, and dimes to represent money amounts to 25 cents.
	Example: Show different ways to show 15 cents using pennies, nickels, and dimes.
	 State the value of pennies, nickels, and dimes using money models and pictures.
(Comprehension)	1.M.1.4. Students are able to estimate weight using non-standard units of measure.
	Example: The cookie weighs about unifix cubes.
(Knowledge)	1.M.1.5. Students are able to identify appropriate measuring tools for length, weight, capacity, and temperature.
(Comprehension)	1.M.1.6. Students are able to compare and order concrete objects by temperature and capacity.
	Examples: Temperature - hotter, colder
	Capacity - holds more, holds less

First Grade Measurement Performance Descriptors

	First grade students performing at the advanced level:
Advanced	 count and compare collections of coins;
	 use clocks and calendars to solve problems;
	 use appropriate units and tools to solve measurement problems.

	First grade students performing at the proficient level:
	 create different combinations of equal value using dimes, nickels, and pennies;
Proficient	 use calendars to locate dates and sequence events and tell time to the half hour;
	 estimate weight using non-standard units and choose appropriate measurement tools to solve problems;
	 compare and order concrete objects by temperature and capacity.
	First grade students performing at the basic level:
Basic	 identify types of coins;
	 name the days of the week.

First Grade Measurement ELL Performance Descriptors

	EEE 1 01 101 munice Descriptors
	First grade ELL students performing at the proficient level:
Proficient	 count collections of coins including dimes, nickels, and pennies;
	• tell time to half-hour;
	 name days of the week;
	 estimate weight using non-standard units;
	 read and speak the basic language of measurement.
	First grade ELL students performing at the intermediate level:
	• identify coins;
Intermediate	• tell time to the hour;
	 recognize and use basic measurement tools and terms;
	 give simple oral responses to directed questions on topics
	presented in class.
	First grade ELL students performing at the basic level:
Dagia	 use non-standard units in various measurement situations;
Basic	 recognize and use basic measurement terms;
	 respond to yes or no questions and to problems presented
	pictorially or numerically in class.
	First grade ELL students performing at the emergent level:
Emergent	 trace, copy, and draw measurement symbols;
Emergent	 imitate pronunciation of numbers and measurement terms;
	 use non-verbal communication to express measurement ideas.
	First grade ELL students performing at the pre-emergent level:
	 observe and model appropriate cultural and learning behaviors
Pre-emergent	from peers and adults;
	 listen to and observe comprehensible instruction and
	communicate understanding non-verbally.

First Grade Number Sense Grade Standards, Supporting Skills, and Examples

Indicator 1: Analyze the structural characteristics of the real number system and its various subsystems. Analyze the concept of value, magnitude, and relative magnitude of real numbers.

Bloom's Taxonomy Level	Standard, Supporting Skills, and Examples
(Comprehension)	 1.N.1.1. Students are able to read, write, count, and order numerals to 50. Say the forward and backward number word sequences in the range 0-50. Say the number before and after a given number in the range 0-50. Use one-to-one correspondence. Keep track of what's been counted. Associate verbal names and standard numerals with whole numbers to 50. Count objects in a given set and write the corresponding numeral. Identify ordinal positions using an ordered set of objects, 1st through 20th. ✓ Associate written word names with whole numbers to 50.
(Knowledge)	 1.N.1.2. Students are able to use unit fraction models to create parts of a whole. Determine ways in which shapes can be divided into equal pieces, i.e., fractional portions of fourths, halves, and thirds.

Indicator 2: Apply number operations with real numbers and other number systems.

Bloom's Taxonomy Level	Standard, Supporting Skills, and Examples
	1.N.2.1. Students are able to solve addition and subtraction problems with numbers 0 to 20 written in horizontal and vertical formats using a variety of strategies.
	Examples:
	Doubles
	Near-doubles
	One more, one less
	Making tens
(Application)	Breaking apart numbers
	Commutative property
	Using landmark numbers
	Mental math
	Relating numbers to money
	Estimation
	Inverse operations
	Compensation
	Internalized number combinations

Indicator 3: Develop conjectures, predictions, or estimations to solve problems and verify or justify the results.

Bloom's Taxonomy Level	Standard, Supporting Skills, and Examples
(Application)	1.N.3.1. Students are able to solve addition and subtraction problems up to 20 in context.
	 Represent problem situations and solve using concrete objects, pictures, or numbers.
	 Explain how one arrives at solutions to problems.
	Select appropriate operation(s).
	• Estimate to determine if a given answer is reasonable.

First Grade Number Sense Performance Descriptors

Advanced	First grade students performing at the advanced level:
	 estimate and solve two-digit addition and subtraction problems;
Auvanceu	 read, write, count, and sequence numerals to 100;
	 create fractional parts of a whole.
First grade students performing at the proficient level:	
	 use various strategies to solve addition and subtraction problems
Proficient	up to 20;
	 read, write, count, and sequence numerals to 50;
	 create fractional parts of a whole using unit fractions.
	First grade students performing at the basic level:
Basic	 solve addition and subtraction problems up to 10;
Dasic	 read, write, count, and sequence numerals to 20;
	 identify fractional parts of a whole using unit fractions.

First Grade Number Sense ELL Performance Descriptors

	First grade FIL students performing at the proficient levels
	First grade ELL students performing at the proficient level:
	 solve basic addition and subtraction problems (0-20);
Proficient	 sequence and compare numbers up to 50;
	 identify and represent unit fractions using concrete materials;
	 read and speak the language of mathematics.
	First grade ELL students performing at the intermediate level:
	 solve basic addition and subtraction problems using concrete
	materials (0-20);
Intermediate	• count to 50;
	 recognize and use basic mathematical terms;
	 give simple oral responses to directed questions on topics
	presented in class.
	First grade ELL students performing at the basic level:
	• solve basic addition problems using concrete materials (0-10);
Basic	• count to 20;
	 respond to yes or no questions and to problems presented
	pictorially or numerically in class.
	First grade ELL students performing at the emergent level:
	• count to 20;
Emergent	 copy, trace, and write numerals and mathematics symbols;
	 imitate pronunciation of numbers;
	 use non-verbal communication to express mathematical ideas.

Pre-emergent	First grade ELL students performing at the pre-emergent level:
	 observe and model appropriate cultural and learning behaviors from peers and adults;
	 listen to and observe comprehensible instruction and communicate understanding non-verbally.

First Grade Statistics & Probability Grade Standards, Supporting Skills, and Examples

Indicator 1: Use statistical models to gather, analyze, and display data to draw conclusions.

Bloom's Taxonomy Level	Standard, Supporting Skills, and Examples
(Application)	1.S.1.1. Students are able to display data in simple picture graphs with units of one and bar graphs with intervals of one.
	Examples: modes of transportation to school, pets owned by students, articles of clothing.
(Comprehension)	1.S.1.2. Students are able to answer questions from organized data.
	Example: What observation can you make from this graph?

Indicator 2: Apply the concepts of probability to predict events/outcomes and solve problems.

Bloom's Taxonomy Level	Standard, Supporting Skills, and Examples
(Comprehension)	1.S.2.1. Students are able to recognize whether the outcome of a simple event is possible or impossible.
	Examples: spinners, number cubes, everyday events
	1) The spinner is half blue and half yellow. Can you land on green?
	2) You have green and yellow cubes in a bag. Can you pull out a green cube?

First Grade Statistics & Probability Performance Descriptors

Advanced	 First grade students performing at the advanced level: determine whether an outcome is possible, impossible, or certain; organize and display data in more than one way and answer questions from collected data.
Proficient	 First grade students performing at the proficient level: determine whether an outcome is possible or impossible; organize and display data, and answer questions from collected data.
Basic	First grade students performing at the basic level: • answer questions about data displayed in graphs.

First Grade Statistics & Probability ELL Performance Descriptors

	ELD I CHOI mance Descriptors	
	First grade ELL students performing at the proficient level:	
	 organize and display data and answer questions about collected 	
Proficient	data;	
	 recognize outcomes of simple events as possible or impossible; 	
	 read and speak the basic language of mathematics. 	
	First grade ELL students performing at the intermediate level:	
I4	 answer questions from organized data; 	
Intermediate	 recognize and use basic mathematical terms; 	
	 give simple oral or pictorial responses to directed questions on 	
	topics presented in class.	
	First grade ELL students performing at the basic level:	
Basic	 collect data and answer questions about the data; 	
	 respond to yes or no questions and to problems presented 	
	pictorially or numerically in class.	
	First grade ELL students performing at the emergent level:	
Emergent	 imitate pronunciation of numbers and mathematical terms; 	
	 use non-verbal communication to express mathematical ideas. 	
	First grade ELL students performing at the pre-emergent level:	
	 observe and model appropriate cultural and learning behaviors 	
Pre-emergent	from peers and adults;	
	 listen to and observe comprehensible instruction and 	
	communicate understanding non-verbally.	

Second Grade Algebra Grade Standards, Supporting Skills, and Examples

Indicator 1: Use procedures to transform algebraic expressions.

Note: Second grade students do not master standards for Indicator 1. Mastery of this indicator emerges and increases from grade 3 upward.

Indicator 2: Use a variety of algebraic concepts and methods to solve equations and inequalities.

Bloom's Taxonomy Level	Standard, Supporting Skills, and Examples
	2.A.2.1. Students are able to use concepts of equal to, greater than, and less than to compare numbers (0-100).
	• For numbers 0 - 100, identify 10 more/10 less.
(Comprehension)	Write the words less than or greater than between two numbers.
	Example: 50 is less than 78
	Identify the number that is greater than/less than.
	2.A.2.2. Students are able to solve open addition and subtraction sentences with one unknown () using numbers equal to or less than 20.
	Examples:
(Application)	10 = 🔲 + 8
	$\square + 6 = 8 + 1$
	$\square = 7 - 3$
	10 - 🗀 = 4
(Application)	2.A.2.3. Students are able to balance simple addition and subtraction equations using sums up to 20.
	Examples:
	9 + 6 = 10 +
	Use a pan balance and cubes to visually balance equations.
	Describe strategies used in adding and subtracting.
	Example: Part-part-whole
	Use the commutative property to solve related equations.

Indicator 3: Interpret and develop mathematical models.

Bloom's Taxonomy Level	Standard, Supporting Skills, and Examples
(Application)	2.A.3.1. Students are able to write and solve number sentences from word problems.
	Examples: Write number sentences that go with these story problems.
	1) Mary made 9 bracelets. She bought 4 more bracelets. How many bracelets does she have in all?
	2) Bob caught 18 fish. He ate 9 for supper. How many are left?

Indicator 4: Describe and apply the properties and behaviors of relations, functions and inverses.

Bloom's Taxonomy Level	Standard, Supporting Skills, and Examples
(Comprehension)	2.A.4.1. Students are able to find and extend growing patterns using symbols, objects, and numbers.
	Identify even and odd numbers.
	 Recognize and extend basic number patterns using a 0-99 or 1-100 chart.
(Comprehension)	2.A.4.2. Students are able to determine likenesses and differences between sets. Example: Use Venn diagrams

Second Grade Algebra Performance Descriptors

1 Citoi mance Descriptors	
Advanced	Second grade students performing at the advanced level: • create and solve addition and subtraction number sentences;
	 compare and classify numbers and sets and explain their thinking;
	 extend and create growing patterns.
Second grade students performing at the proficient level:	
Proficient	 solve addition and subtraction number sentences (0-20);
	• compare numbers and sets (1-100);
	 find and extend growing patterns.
	Second grade students performing at the basic level:
Basic	 solve addition and subtraction number sentences (0-10);
	• compare sets;
	 identify growing patterns.

Second Grade Algebra ELL Performance Descriptors

	ELL I CHOIMance Descriptors
	Second grade ELL students performing at the proficient level:
Proficient	 write and balance equations involving addition and subtraction of
	numbers to 10 and explain the processes used;
	 find and extend growing patterns;
	 determine likenesses and differences between sets;
	• use concepts of greater than, less than, and equal to compare
	numbers and sets (0-100);
	• read, write, and speak the basic language of mathematics.
	Second grade ELL students performing at the intermediate level:
	 balance simple equations involving addition and subtraction of
	one-digit numbers;
I4	• extend growing patterns;
Intermediate	determine likenesses between sets;
	• use +, -, and = symbols to write number sentences and solve
	problems;
	 give simple oral or written responses to directed questions on
	topics presented in class.
	Second grade ELL students performing at the basic level:
	 solve number sentences using manipulatives or symbolic
	representations (0-10);
Basic	• compare numbers and sets (0-50);
	• extend patterns;
	 recognize and use basic mathematical terms;
	 respond to yes or no questions and to problems presented
	pictorially or numerically in class.
	Second grade ELL students performing at the emergent level:
Emergent	 copy, trace, and write numerals and mathematics symbols;
Emergent	 imitate pronunciation of numbers and mathematical terms;
	 use non-verbal communication to express mathematical ideas.
	Second grade ELL students performing at the pre-emergent level:
	 observe and model appropriate cultural and learning behaviors
Pre-emergent	from peers and adults;
	 listen to and observe comprehensible instruction and
	communicate understanding non-verbally.

Second Grade Geometry Grade Standards, Supporting Skills, and Examples

Indicator 1: Use deductive and inductive reasoning to recognize and apply properties of geometric figures.

Bloom's Taxonomy Level	Standard, Supporting Skills, and Examples
(Comprehension)	2.G.1.1. Students are able to use the terms side and vertex (corners) to identify plane and solid figures.
	Examples (but not limited to):
	Hexagon
	Circle
	Square
	Triangle
	Sphere
	Cube

Indicator 2: Use properties of geometric figures to solve problems from a variety of perspectives.

Bloom's Taxonomy Level	Standard, Supporting Skills, and Examples
	2.G.2.1. Students are able to identify geometric figures regardless of position and orientation in space.
(Knowledge)	Examples: and are both triangles.

Second Grade Geometry Performance Descriptors

1 ci i i i i i i i i i i i i i i i i i i	
	Second grade students performing at the advanced level:
Advanced	 identify and classify plane and solid figures based on attributes;
	 identify and classify geometric figures regardless of position in
	space.
	Second grade students performing at the proficient level:
Proficient	 identify plane and solid figures based on attributes;
	 identify geometric figures regardless of position in space.

	Second grade students performing at the basic level:
Basic	 identify plane figures based on attributes.

Second Grade Geometry ELL Performance Descriptors

ELL Teriormance Descriptors		
	Second grade ELL students performing at the proficient level:	
Proficient	 identify and compare plane and solid figures regardless of 	
	position in space;	
	 read, write, and speak the basic language of geometry. 	
	Second grade ELL students performing at the intermediate level:	
	 describe characteristics of geometric figures; 	
Intermediate	 write responses with oral support; 	
Intermediate	 explain in geometric terms the sequence of steps used in solving 	
	problems;	
	 give simple oral responses to directed questions on topics 	
	presented in class.	
	Second grade ELL students performing at the basic level:	
	 identify basic geometric figures and shapes; 	
Basic	 copy words related to geometry; 	
	 recognize and use basic geometric terms; 	
	 respond to yes or no questions and to problems presented 	
	pictorially or numerically in class.	
	Second grade ELL students performing at the emergent level:	
	 sort geometric figures; 	
Emergent	 trace, copy, and draw basic geometric shapes; 	
S	 imitate pronunciation of geometric shapes and terms; 	
	 use non-verbal communication to express mathematical ideas. 	
	Second grade ELL students performing at the pre-emergent level:	
	 observe and model appropriate cultural and learning behaviors 	
Pre-emergent	from peers and adults;	
	 listen to and observe comprehensible instruction and 	
	communicate understanding non-verbally.	

Second Grade Measurement Grade Standards, Supporting Skills, and Examples

Indicator 1: Apply measurement concepts in practical applications.

Bloom's Taxonomy Level	Standard, Supporting Skills, and Examples
(Knowledge)	2.M.1.1. Students are able to tell time to the minute using digital and analog clocks and relate time to daily events.
(Application)	2.M.1.2. Students are able to use the calendar to solve problems.
(Application)	2.M.1.3. Students are able to determine the value of a collection of like and unlike coins with a value up to \$1.00.
(Knowledge)	2.M.1.4. Students are able to represent and write the value of money using the "¢" sign and in decimal form using the "\$" sign.
	2.M.1.5. Students are able to use whole number approximations for capacity using non-standard units of measure.
(Comprehension)	Examples: The jar holds about how many marbles?
	How many small jars of water will it take to fill a big jar?
	2.M.1.6. Students are able to solve everyday problems by measuring length to the nearest inch or foot.
(Comprehension)	Examples: How long is your shoe?
	How tall is your chair?
(Application)	2.M.1.7. Students are able to locate and name concrete objects that are about the same length, height, weight, capacity, and temperature as a given concrete object.

Second Grade Measurement Performance Descriptors

	Second grade students performing at the advanced level:
Advanced	 count, compare, and trade coins appropriately for a given amount;
	 solve problems using time;
	 use appropriate units and tools in various measurement situations.
	Second grade students performing at the proficient level:
	 count collections of coins up to \$1.00 and represent the value
	using appropriate forms;
Proficient	 tell time to one minute intervals and use calendars to solve
	problems;
	 measure the length of concrete objects to the nearest inch or foot;
	 name concrete objects of comparable dimensions.
	Second grade students performing at the basic level:
Basic	 count collections of dimes, nickels, or pennies;
Dasie	• tell time to the half-hour;
	 measure concrete objects using non-standard units.

Second Grade Measurement ELL Performance Descriptors

ELL I el formance Descriptors	
	Second grade ELL students performing at the proficient level:
	 count collections of coins;
Proficient	 tell time to one-minute intervals and use calendars to solve
Troncicit	problems;
	 measure length of concrete objects using standard and non-
	standard units;
	 read, write, and speak the language of mathematics.
	Second grade ELL students performing at the intermediate level:
	 count collections of coins including nickels, dimes, and pennies;
	 tell time to the half-hour and read a calendar;
Intermediate	• identify appropriate standard or non-standard units to measure and
	record in various measurement situations;
	 use measurement terms to explain how to solve problems;
	 give simple oral responses to directed questions on topics
	presented in class.
	Second grade ELL students performing at the basic level:
	• tell time to the hour;
Basic	 use standard and non-standard units to measure in various
Dasic	situations;
	 recognize and use basic measurement terms;
	 respond to yes or no questions and to problems presented
	pictorially or numerically in class.

	Second grade ELL students performing at the emergent level:
	 use non-standard units in various measurement situations;
Emergent	 trace, copy, and draw measurement symbols;
	 imitate pronunciation of numbers and measurement terms;
	 use non-verbal communication to express measurement ideas.
	Second grade ELL students performing at the pre-emergent level:
	 observe and model appropriate cultural and learning behaviors
Pre-emergent	from peers and adults;
	 listen to and observe comprehensible instruction and
	communicate understanding non-verbally.

Second Grade Number Sense Grade Standards, Supporting Skills, and Examples

Indicator 1: Analyze the structural characteristics of the real number system and its various subsystems. Analyze the concept of value, magnitude, and relative magnitude of real numbers.

Bloom's Taxonomy Level	Standard, Supporting Skills, and Examples
	2.N.1.1. Students are able to read, write, count, and sequence numerals to 100.
	• Say the forward and backward number word sequences in the range 0-100.
	• Say the number before and after a given number in the range 0-100.
(Comprehension)	• Say the forward and backward skip counting sequences in the range 0-100 for twos, fives, and tens.
(Comprehension)	Use one-to-one correspondence.
	Keep track of what's been counted.
	 Count objects by groups of twos, fives and tens to 100.
	 Associate verbal names, written word names, and standard numerals with whole numbers to 100.
	• Use words, models, and expanded notation to structure numbers as tens and ones to 100.
	2.N.1.2. Students are able to identify and represent fractions as parts of a group.
(Comprehension)	Example: Circle half of the cookies.
	0000
	0000

Indicator 2: Apply number operations with real numbers and other number systems.

Bloom's Taxonomy Level	Standard, Supporting Skills, and Examples
	2.N.2.1. Students are able to solve two-digit addition and subtraction problems written in horizontal and vertical formats using a variety of strategies.
	Examples: Doubles
	Near-doubles
	One more, one less
	Making tens
(Application)	Breaking apart numbers
	Commutative property
	Using landmark numbers
	Mental math
	Relating to money
	Estimation
	Inverse operations
	Compensation

Indicator 3: Develop conjectures, predictions, or estimations to solve problems and verify or justify the results.

Bloom's Taxonomy Level	Standard, Supporting Skills, and Examples
	2.N.3.1. Students are able to solve addition and subtraction problems up to 100 in context.
(Application)	 Represent problem situations and solve using concrete objects, pictures, numbers, tables, or charts.
	Explain the strategies used to arrive at a solution to a problem.
	 Select appropriate operation(s).
	• Estimate to determine if a given answer is reasonable.

Second Grade Number Sense Performance Descriptors

	Second grade students performing at the advanced level:
Advanced	 apply strategies of two-digit addition and subtraction to three- digit numbers;
	 read, write, count, and sequence numerals to 1,000;
	 create fractional parts of a group.
	Second grade students performing at the proficient level:
Proficient	 use various strategies to solve addition and subtraction problems using one- and two-digit numbers;
	 read, write, count, and sequence numerals to 100;
	 identify and represent fractional parts of a group.
	Second grade students performing at the basic level:
Basic	 solve addition and subtraction problems to 20;
	 read, write, count, and sequence numerals to 50.

Second Grade Number Sense ELL Performance Descriptors

	Second grade ELL students performing at the proficient level:
Proficient	 solve two-digit addition and subtraction problems;
	• sequence and compare numbers up to 100;
	 identify fractions representing parts of a group;
	• read, write, and speak the language of mathematics.
	Second grade ELL students performing at the intermediate level:
	add and subtract one- and two-digit numbers;
Intermediate	• sequence and compare numbers to 75;
	give simple oral or pictorial responses to directed questions on
	topics presented in class.
	Second grade ELL students performing at the basic level:
	add and subtract one- and two-digit whole numbers without
D .	regrouping;
Basic	 sequence and compare numbers to 50;
	 recognize and use basic mathematical terms;
	 respond to yes or no questions and to problems presented
	pictorially or numerically in class.
	Second grade ELL students performing at the emergent level:
	 solve oral problems using addition and subtraction (0-20);
	• count to 20;
Emergent	 copy, trace, and write numerals and mathematics symbols;
	 imitate and use correct pronunciation of numbers and
	mathematical terms;
	 use non-verbal communication to express mathematical ideas.

Pre-emergent	 Second grade ELL students performing at the pre-emergent level: observe and model appropriate cultural and learning behaviors from peers and adults; listen to and observe comprehensible instruction and communicate understanding non-verbally.
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Second Grade Statistics & Probability Grade Standards, Supporting Skills, and Examples

Indicator 1: Use statistical models to gather, analyze, and display data to draw conclusions.

Bloom's Taxonomy Level	Standard, Supporting Skills, and Examples
(Comprehension)	2.S.1.1. Students are able to use interviews, surveys, and observations to gather data.
	Examples: Observe the sky conditions for 5 days.
	Conduct a survey on classmates' eye colors.
(Application)	2.S.1.2. Students are able to represent data sets in more than one way.
	Examples: bar graphs, frequency tables, pictographs.
(Comprehension)	2.S.1.3. Students are able to answer questions about and generate explanations of data given in tables and graphs.
	Explore features of data sets Example: range and mode

Indicator 2: Apply the concepts of probability to predict events/outcomes and solve problems.

Bloom's Taxonomy Level	Standard, Supporting Skills, and Examples
	2.S.2.1. Students are able to list possible outcomes of a simple event and make predictions about which outcome is more or less likely to occur.
(Application)	Examples: The spinner is $\frac{1}{2}$ blue, $\frac{1}{4}$ yellow, and $\frac{1}{4}$ green. On which color are you most likely to land? You have 7 green and 3 yellow cubes in a bag. Which color cube would you be least likely to pull out?

Second Grade Statistics & Probability Performance Descriptors

	Second grade students performing at the advanced level:
	 compare data using tables or graphs;
Advanced	 generate questions for a given table or graph;
	 make predictions and list possible outcomes that are more likely,
	less likely, or certain to occur.
	Second grade students performing at the proficient level:
	 collect and represent data using tables or graphs;
Proficient	 answer questions and provide explanations for a given table or graph;
	 make predictions and list possible outcomes that are more or less
	likely to occur.
	Second grade students performing at the basic level:
Basic	 represent data using tables or graphs.

Second Grade Statistics & Probability ELL Performance Descriptors

	EEE 1 ci toi munice Descriptors
	Second grade ELL students performing at the proficient level:
	 collect and represent data using tables and graphs;
Proficient	 answer questions about given tables and graphs;
	• discuss the probability of simple events and list possible outcomes (more or less likely);
	• read, write, and speak the language of mathematics.
	Second grade ELL students performing at the intermediate level:
Intoumodiate	 represent data using tables or graphs;
Intermediate	 list possible outcomes of simple events;
	 give simple oral or written responses to questions on topics
	presented in class.
	Second grade ELL students performing at the basic level:
	 answer directed questions from collected data;
Basic	 collect and organize data in small groups;
	 recognize and use basic statistical and probability terms;
	 respond to yes or no questions and to problems presented pictorially or numerically in class.
	Second grade ELL students performing at the emergent level:
T	• give pictorial responses to questions on topics presented in class;
Emergent	 imitate pronunciation of numbers and mathematical terms;
	 use non-verbal communication to express mathematical ideas.

ALGEBRA STANDARDS K-2

Indicator 1: Use procedures to transform algebraic expressions.

Note: Kindergarten through grade 2 students do not master standards for Indicator 1. Mastery of this indicator emerges and increases from grade 3 upward.

Indicator 2: Use a variety of algebraic concepts and methods to solve equations and inequalities.

Kindergarten	First Grade	Second Grade
K.A.2.1. (Comprehension) Compare collections of objects to determine more, less, and equal (greater than and less than).	1.A.2.1. (Comprehension) Use the concepts and language of more, less, and equal (greater than and less than) to compare numbers and sets (0 to 20).	2.A.2.1. (Comprehension) Use concepts of equal to, greater than, and less than to compare numbers (0-100).
	1.A.2.2. (Application) Solve open addition and subtraction sentences with one unknown () using numbers equal to or less than 10.	2.A.2.2. (Application) Solve open addition and subtraction sentences with one unknown () using numbers equal to or less than 20.
		2.A.2.3. (Application) Balance simple addition and subtraction equations using sums up to 20.

Indicator 3: Interpret and develop mathematical models.

Kindergarten	First Grade	Second Grade
K.A.3.1. (Knowledge) Use concrete objects to model the meaning of the "+" and "-" symbols.	1.A.3.1. (Application) Students are able to write number sentences from problem situations using + or – and = with numbers to 10.	2.A.3.1. (Application) Write and solve number sentences from word problems.

Indicator 4: Describe and apply the properties and behaviors of relations, functions and inverses.

Kindergarten	First Grade	Second Grade
K.A.4.1. (Knowledge) Identify and extend two- part repeating patterns using concrete objects.	1.A.4.1. (Comprehension) Identify and extend repeating patterns containing multiple elements using objects and pictures.	2.A.4.1. (Comprehension) Find and extend growing patterns using symbols, objects, and numbers.
K.A.4.2. (Comprehension) Sort and classify objects according to one attribute.	1.A.4.2. (Comprehension) Determine common attributes in a given group and identify those objects that do not belong.	2.A.4.2. (Comprehension) Determine likenesses and differences between sets.

GEOMETRY STANDARDS K - 2

Indicator 1: Use deductive and inductive reasoning to recognize and apply properties of geometric figures.

Kindergarten	First Grade	Second Grade
K.G.1.1. (Knowledge) Identify basic two- dimensional (plane) figures.	1.G.1.1. (Comprehension) Describe characteristics of plane figures.	2.G.1.1. (Comprehension) Use the terms side and vertex (corners) to identify plane and solid figures.
	1.G.1.2. (Comprehension) Sort basic three- dimensional figures.	

Indicator 2: Use properties of geometric figures to solve problems from a variety of perspectives.

Kindergarten	First Grade	Second Grade
K.G.2.1. (Comprehension) Describe the position of two-dimensional (plane) figures.	1.G.2.1. (Comprehension) Describe proximity of objects in space.	2.G.2.1. (Knowledge) Identify geometric figures regardless of position and orientation in space.

MEASUREMENT STANDARDS K-2

Indicator 1: Apply measurement concepts in practical applications.

Kindergarten	First Grade	Second Grade
K.M.1.1. (Knowledge) Tell time to the hour using analog and digital clocks.	1.M.1.1. (Knowledge) Tell time to the half-hour using analog and digital clocks and order a sequence of events with respect to time.	2.M.1.1. (Knowledge) Tell time to the minute using analog and digital clocks and relate time to daily events.
K.M.1.2. (Knowledge) Name the days of the week.	1.M.1.2. (Application) Find a date on the calendar.	2.M.1.2. (Application) Use the calendar to solve problems.
K.M.1.3. (Knowledge) Identify pennies, nickels, dimes, and quarters using money models.	1.M.1.3. (Application) Use different combinations of pennies, nickels, and dimes to represent money amounts to 25 cents.	2.M.1.3. (Application) Determine the value of a collection of like and unlike coins with a value up to \$1.00.
K.M.1.4. (Knowledge) Estimate length using non- standard units of measure.	1.M.1.4. (Comprehension) Estimate weight using non- standard units of measure.	2.M.1.4. (Knowledge) Represent and write the value of money using the "¢" sign and in decimal form using the "\$" sign.
K.M.1.5. (Comprehension) Compare and order concrete objects by length, height, and weight.	1.M.1.5. (Knowledge) Identify appropriate measuring tools for length, weight, capacity, and temperature.	2.M.1.5. (Comprehension) Use whole number approximations for capacity using non-standard units of measure.
	1.M.1.6. (Comprehension) Compare and order concrete objects by temperature and capacity.	2.M.1.6. (Comprehension) Solve everyday problems by measuring length to the nearest inch or foot.
		2.M.1.7. (Application) Locate and name concrete objects that are about the same length, height, weight, capacity, and temperature as a given concrete object.

NUMBER SENSE STANDARDS K-2

Indicator 1: Analyze the structural characteristics of the real number system and its various subsystems. Analyze the concept of value, magnitude, and relative magnitude of real numbers.

Kindergarten	First Grade	Second Grade
K.N.1.1. (Comprehension) Read, write, count, and sequence numerals to 20.	1.N.1.1. (Comprehension) Read, write, count, and order numerals to 50.	2.N.1.1. (Comprehension) Read, write, count, and sequence numerals to 100.
K.N.1.2. (Knowledge) Use fraction models to create one half of a whole.	1.N.1.2. (Knowledge) Use unit fraction models to create parts of a whole.	2.N.1.2. (Comprehension) Identify and represent fractions as parts of a group.

Indicator 2: Apply number operations with real numbers and other number systems.

Kindergarten	First Grade	Second Grade
	1.N.2.1. (Application) Solve addition and subtraction problems with numbers 0 to 20 written in horizontal and vertical formats using a variety of strategies.	2.N.2.1. (Application) Solve two-digit addition and subtraction problems written in horizontal and vertical formats using a variety of strategies.

Indicator 3: Develop conjectures, predictions, or estimations to solve problems and verify or justify the results.

Kindergarten	First Grade	Second Grade
K.N.3.1. (Application) Solve addition and subtraction problems up to 10 in context.	1.N.3.1. (Application) Solve addition and subtraction problems up to 20 in context.	2.N.3.1. (Application) Solve addition and subtraction problems up to 100 in context.

STATISTICS AND PROBABILITY STANDARDS K-2

Indicator 1: Use statistical models to gather, analyze, and display data to draw conclusions.

Kindergarten	First Grade	Second Grade
K.S.1.1. (Knowledge) Describe data represented in simple graphs (using real objects) and pictographs.	1.S.1.1. (Application) Display data in simple picture graphs with units of one and bar graphs with intervals of one.	2.S.1.1. (Comprehension) Use interviews, surveys, and observations to gather data.
	1.S.1.2. (Comprehension) Answer questions from organized data.	2.S.1.2. (Application) Represent data sets in more than one way.
		2.S.1.3. (Comprehension) Answer questions about and generate explanations of data given in tables and graphs.

Indicator 2: Apply the concepts of probability to predict events/outcomes and solve problems.

Kindergarten	First Grade	Second Grade
(Mastery of this indicator does not emerge until first grade.)	1.S.2.1. (Comprehension) Recognize whether the outcome of a simple event is possible or impossible.	2.S.2.1. (Application) List possible outcomes of a simple event and make predictions about which outcome is more or less likely to occur.